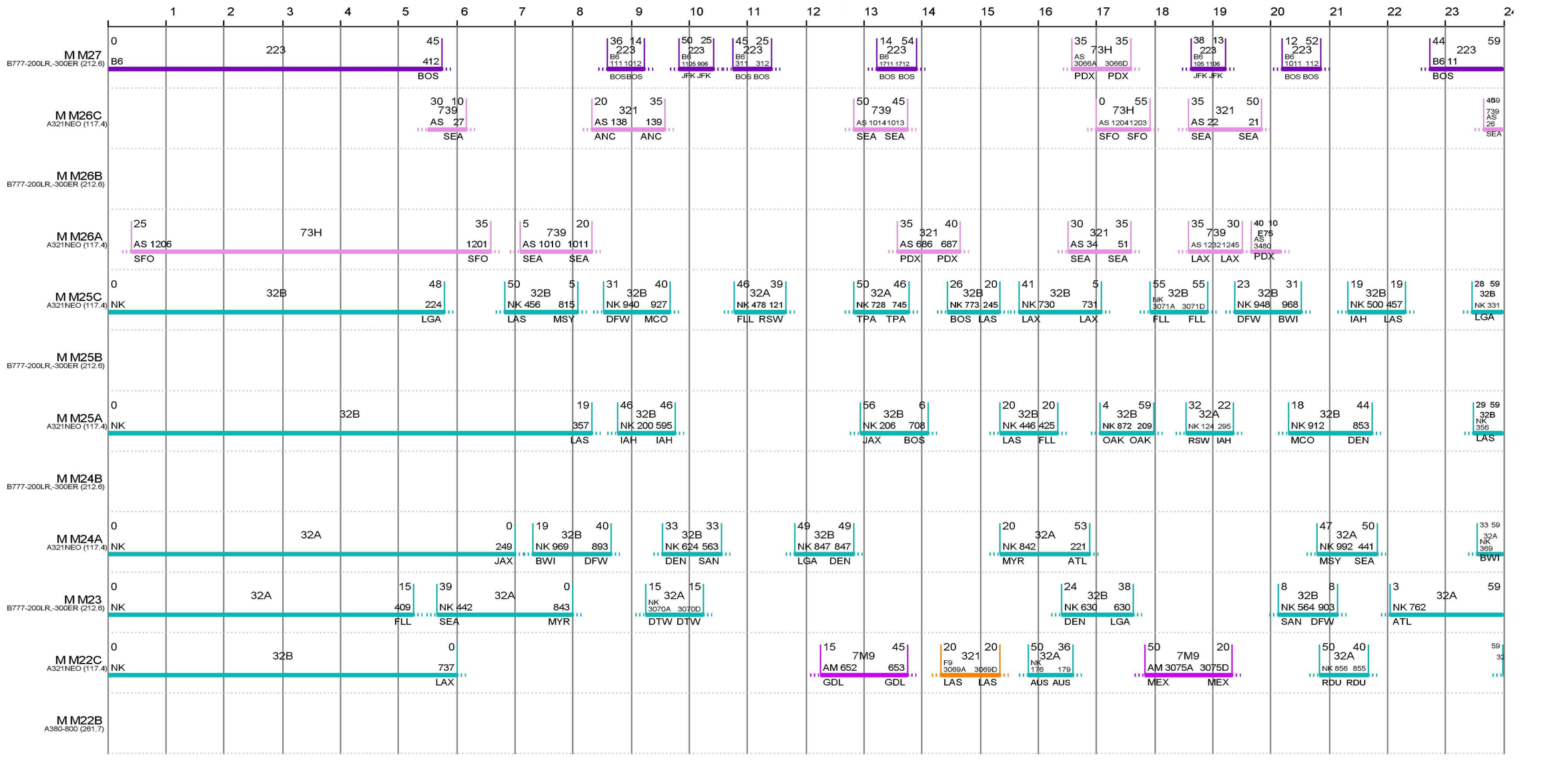
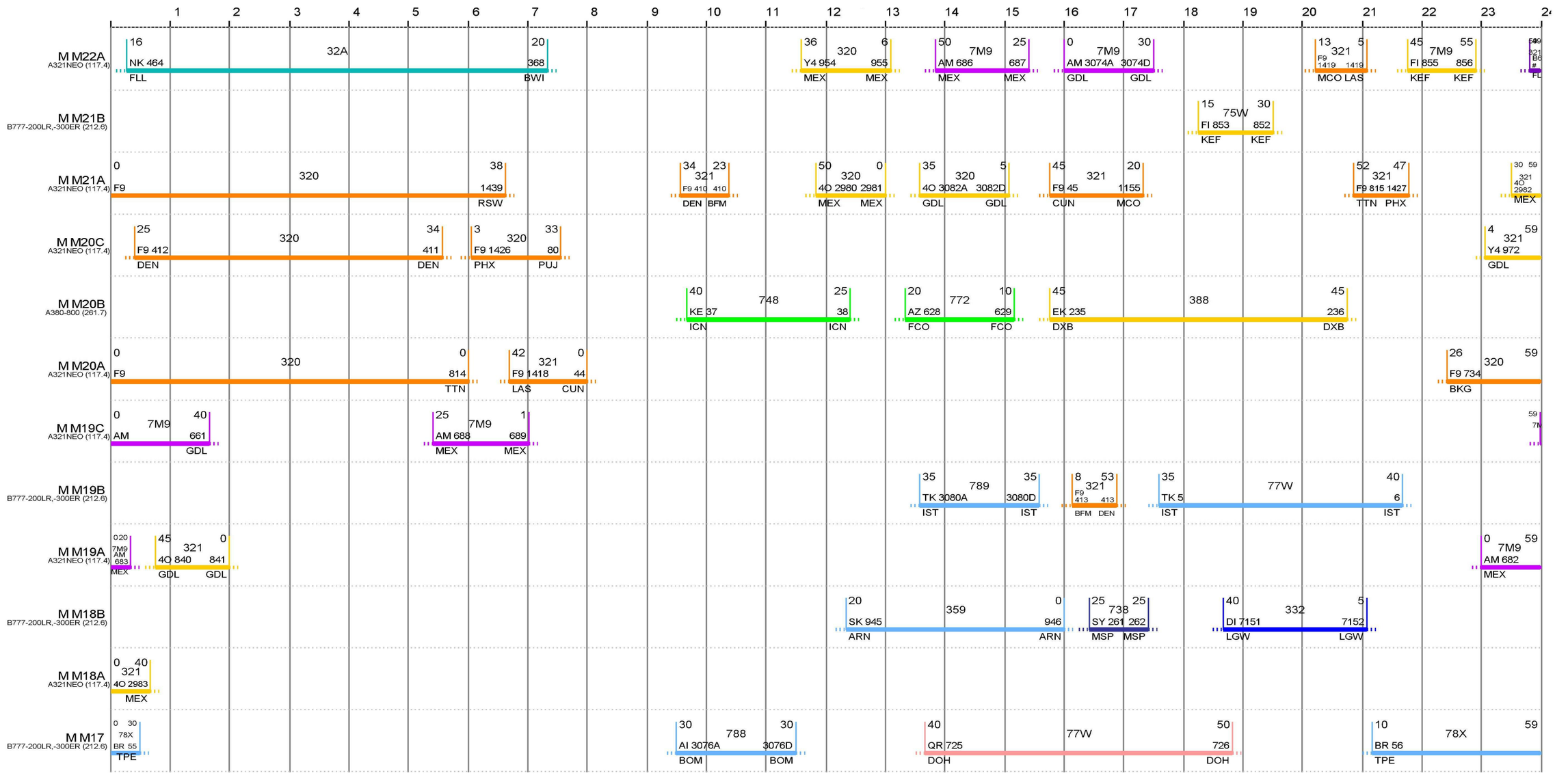


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (1 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (1) Plotted: Nov 4, 2020, 06:41PM

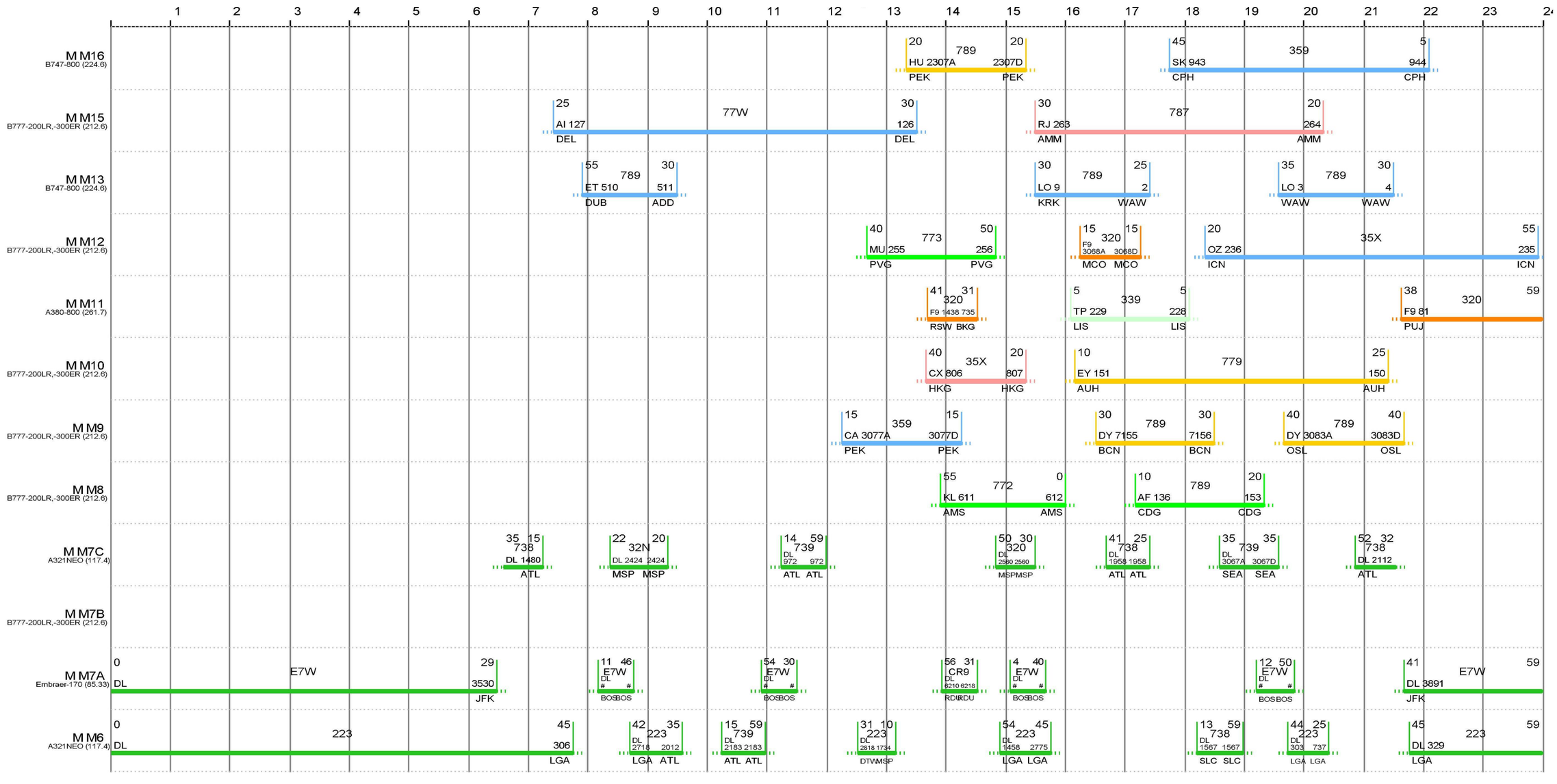


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (2 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (2) Plotted: Nov 4, 2020, 06:41PM

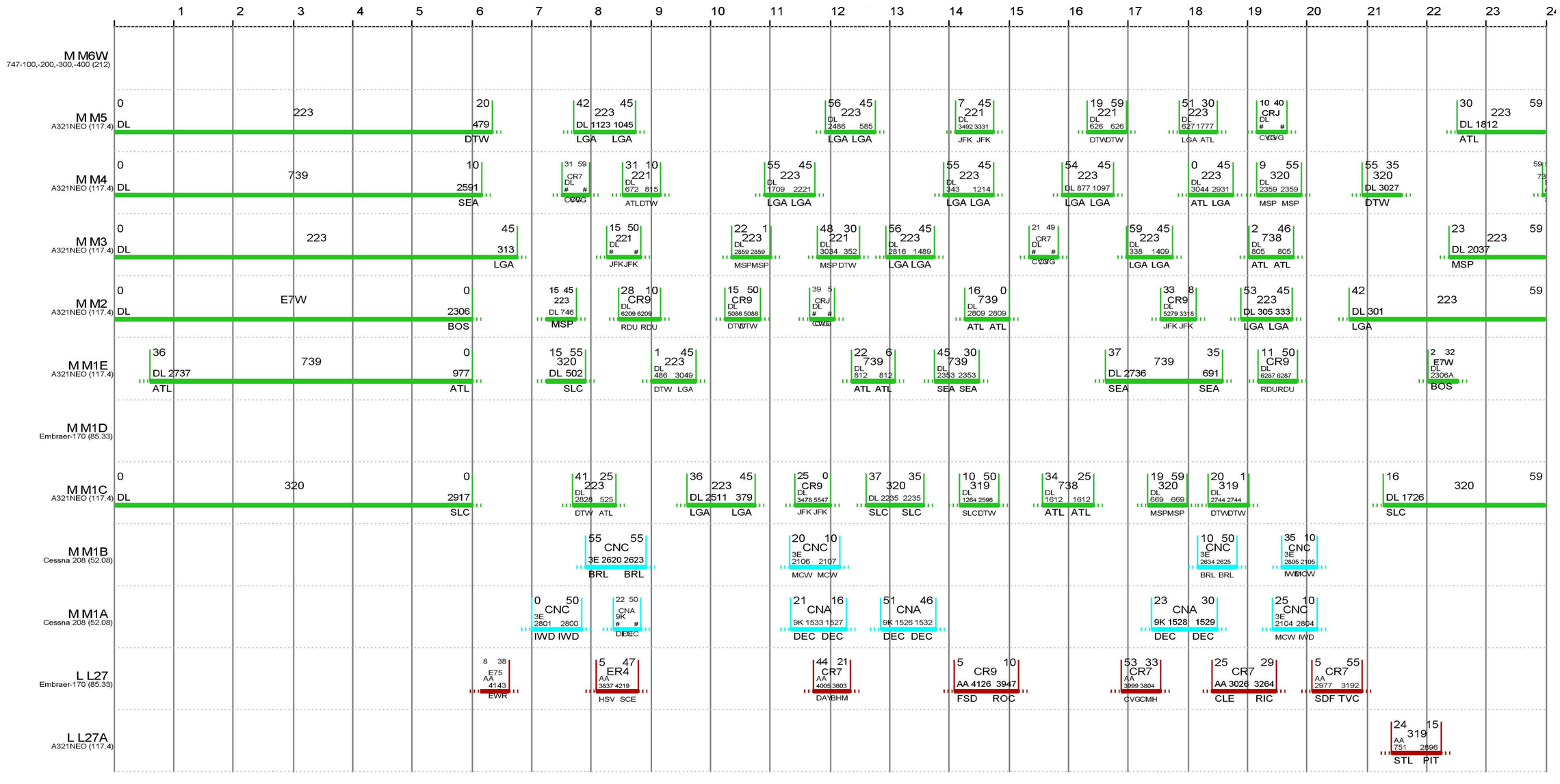


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (3 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (3) Plotted: Nov 4, 2020, 06:41PM

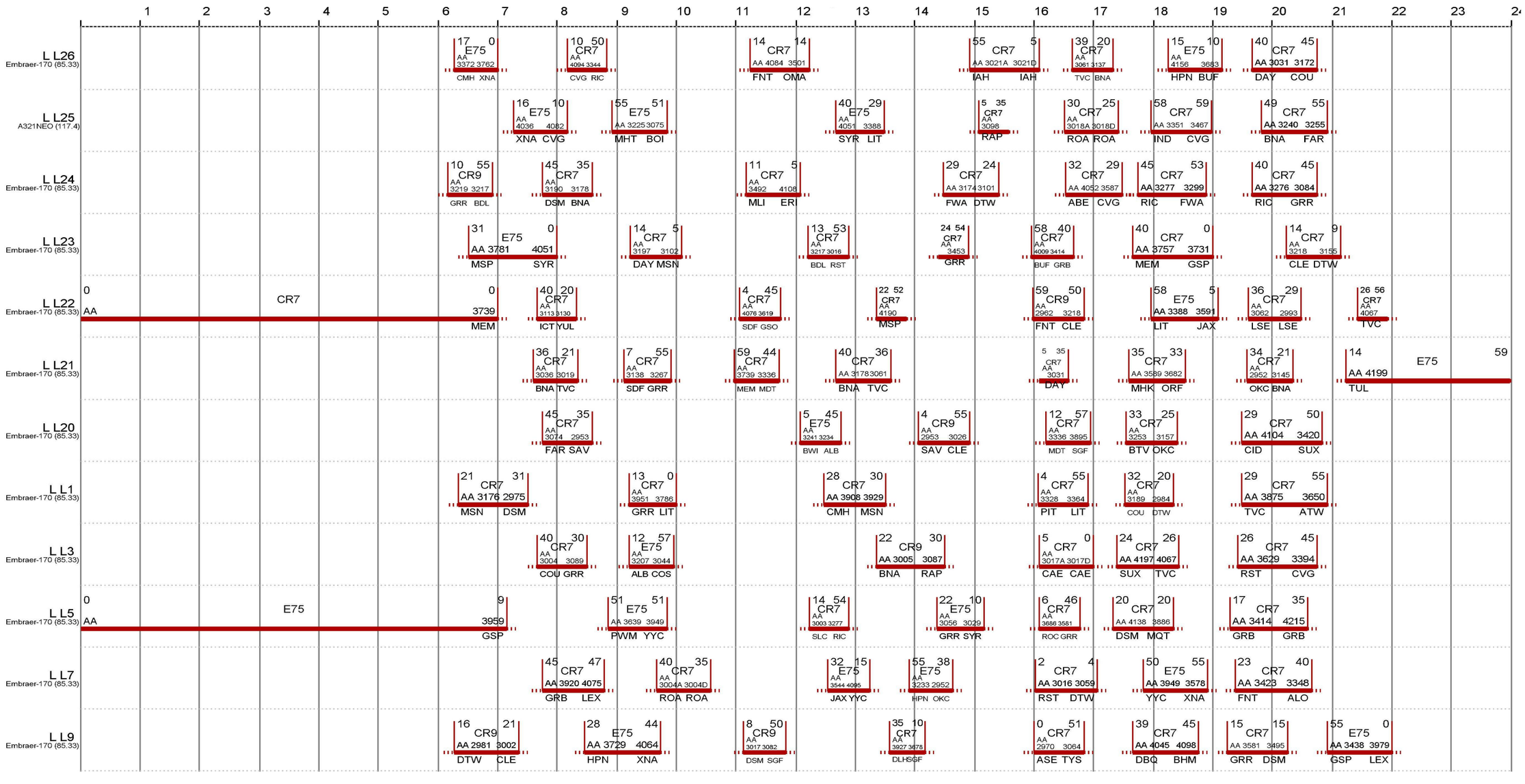


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (4 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (4) Plotted: Nov 4, 2020, 06:41PM

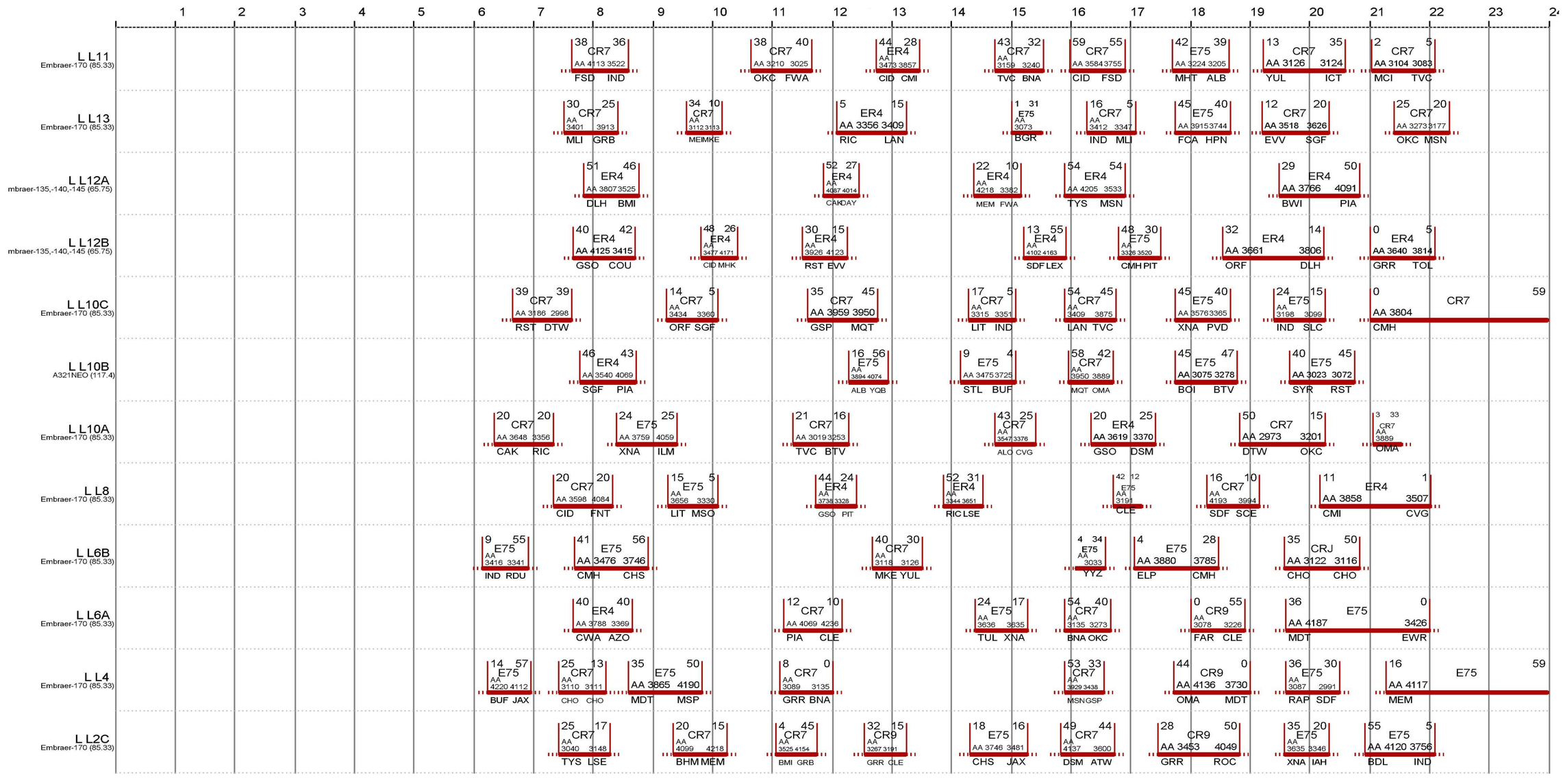


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (5 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (5) Plotted: Nov 4, 2020, 06:41PM

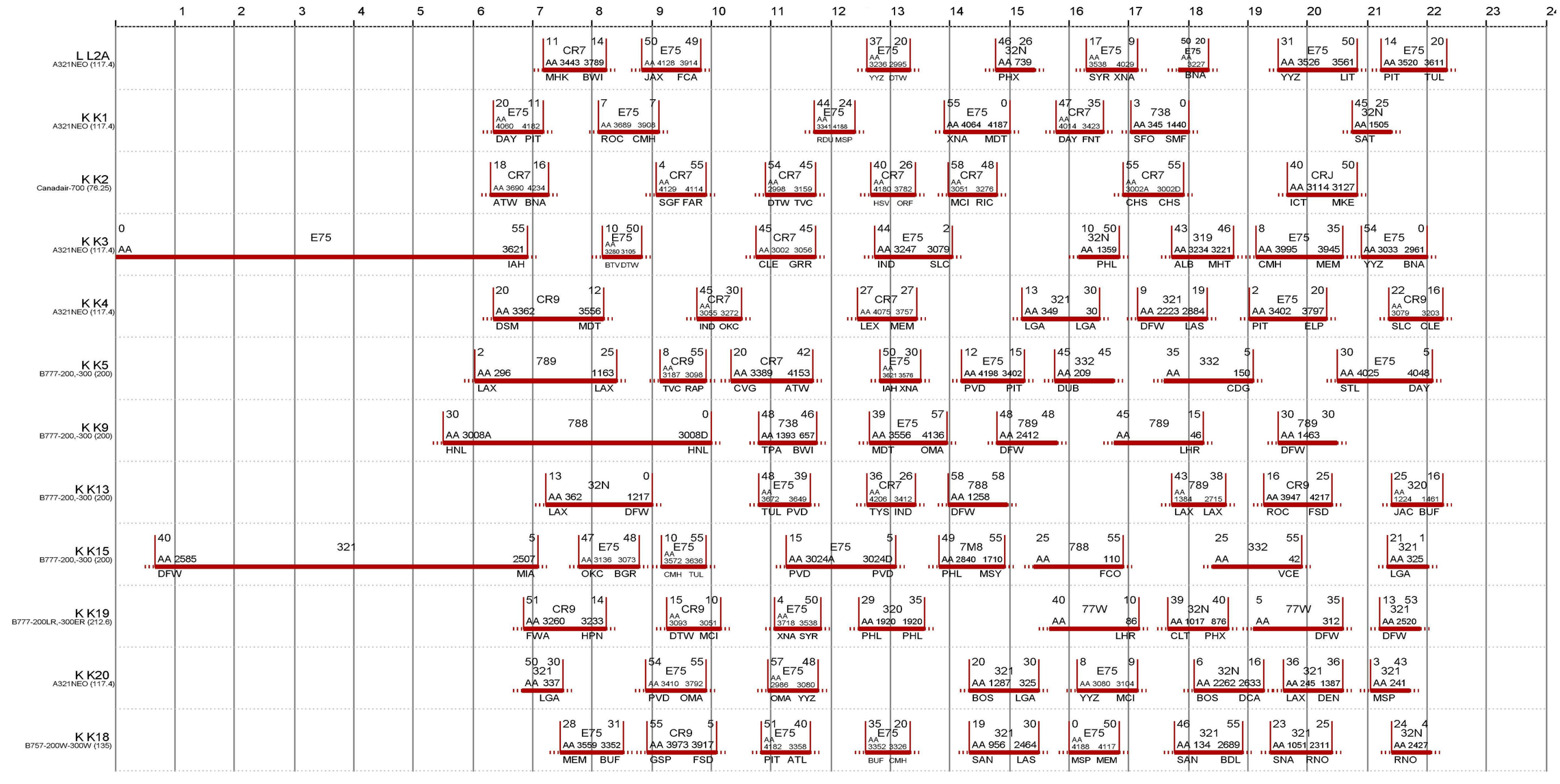


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (6 OF 22)

Ramp Charts

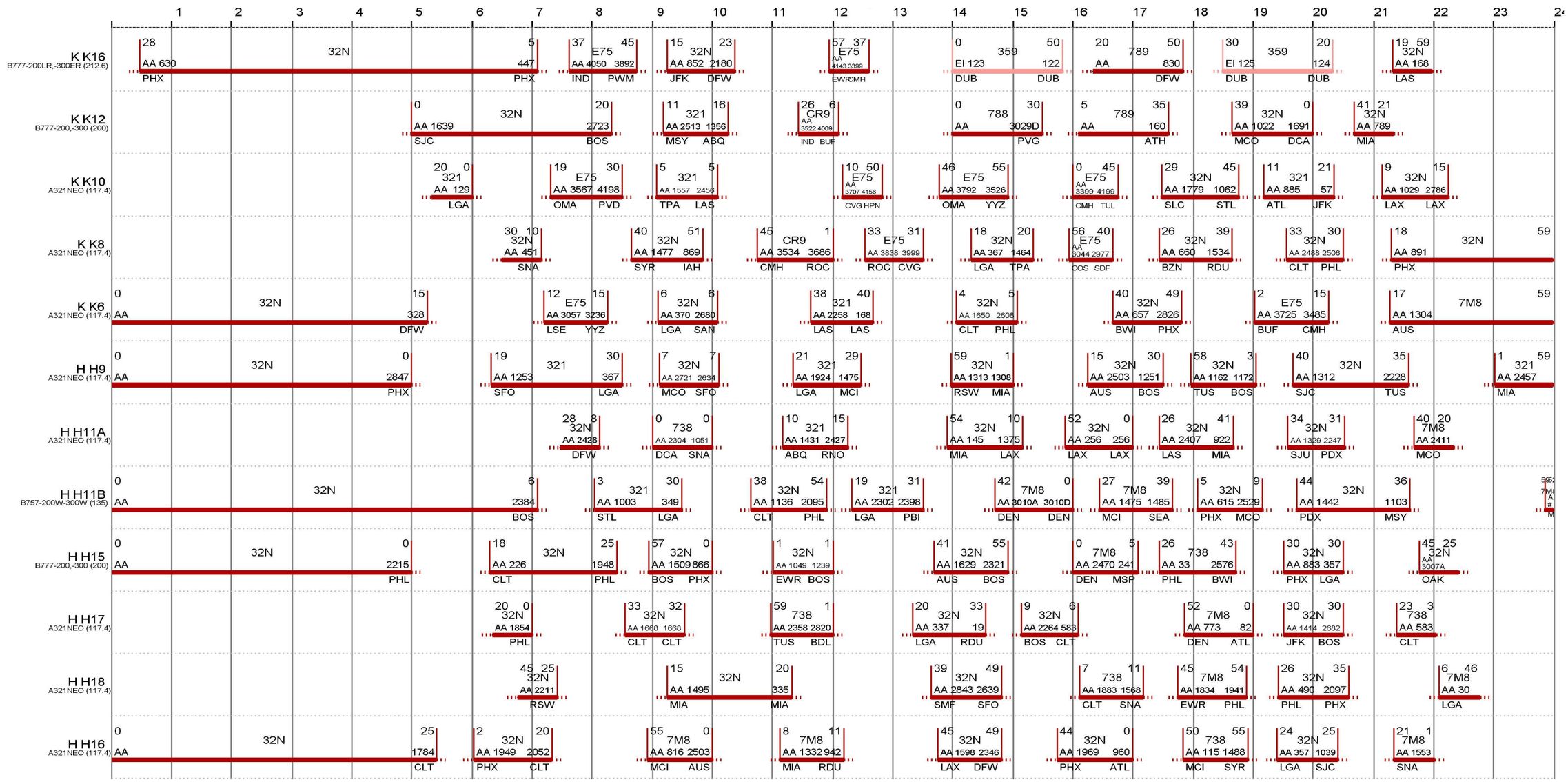
Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (6) Plotted: Nov 4, 2020, 06:41PM



SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (7 OF 22)

Ramp Charts

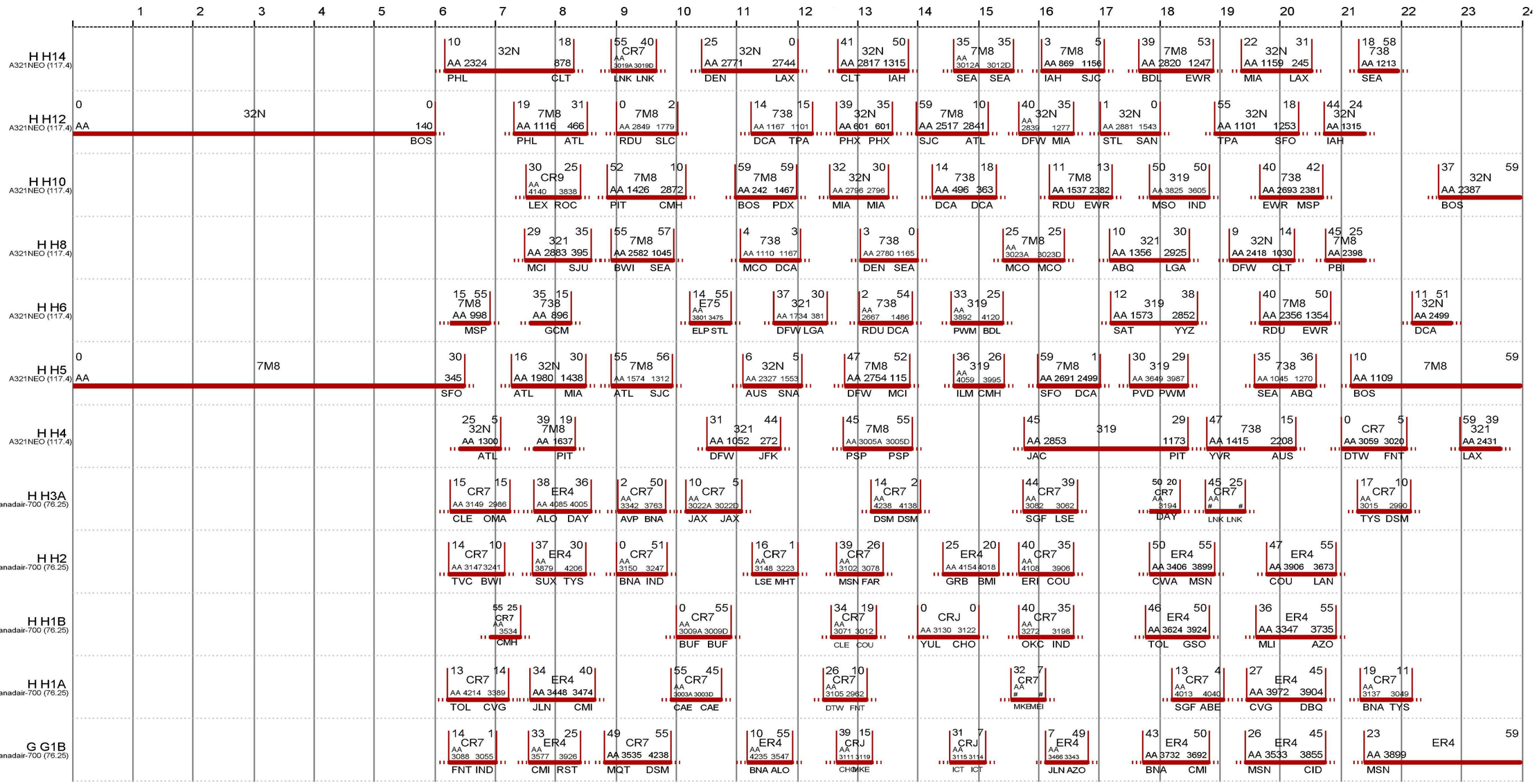


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (8 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (8) Plotted: Nov 4, 2020, 06:42PM

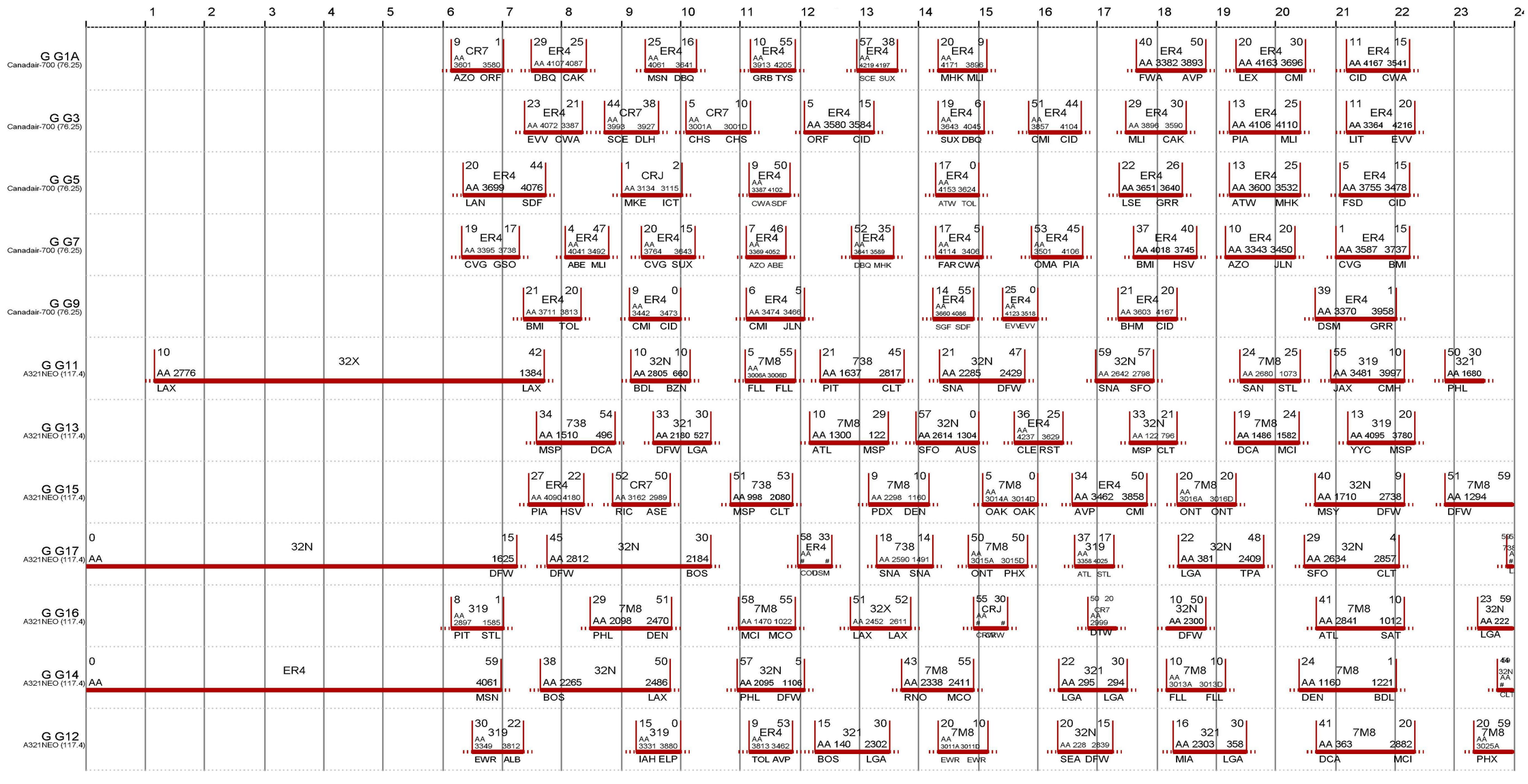


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (9 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (9) Plotted: Nov 4, 2020, 06:42PM

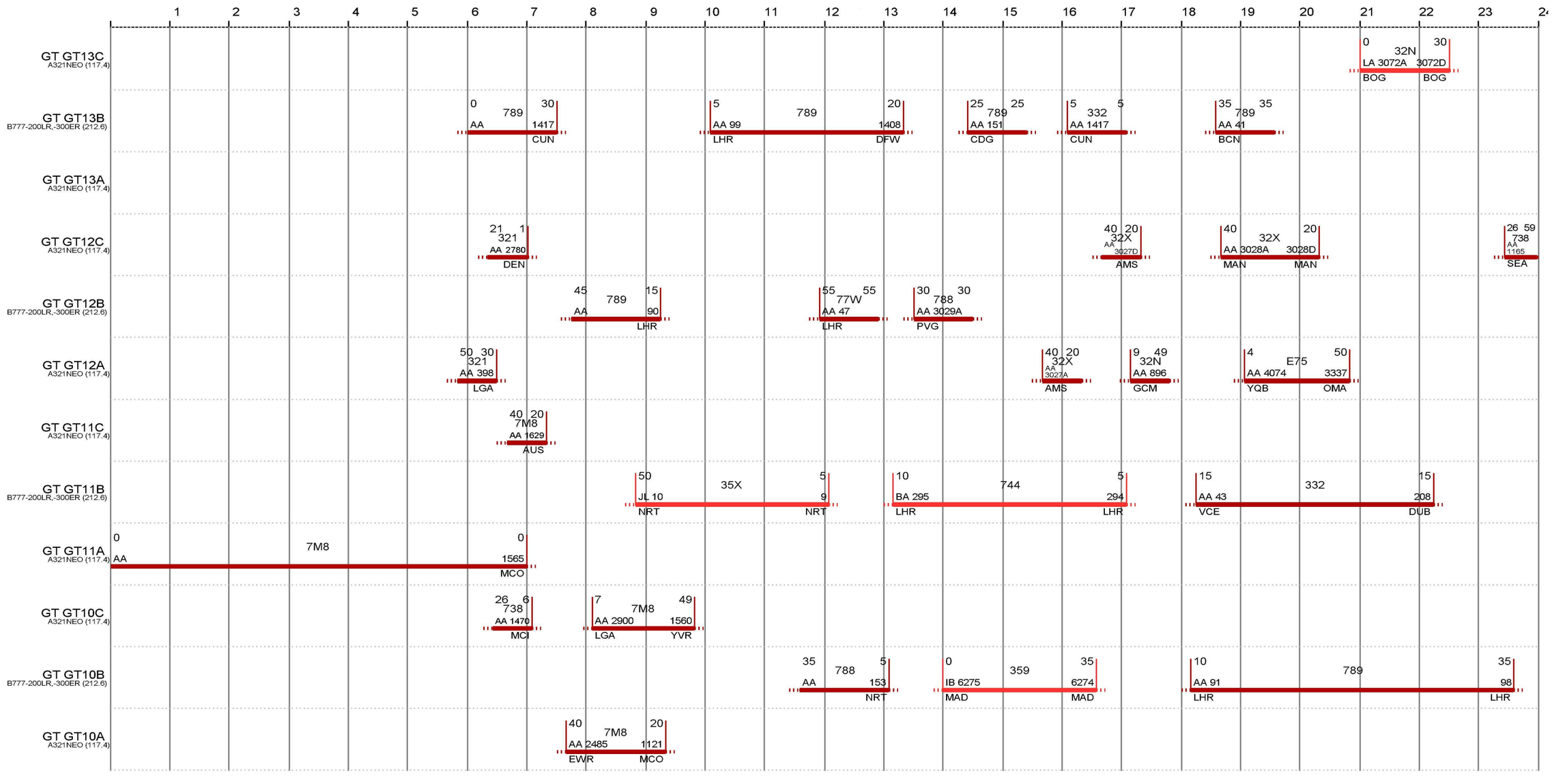


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (10 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (10) Plotted: Nov 4, 2020, 06:42PM

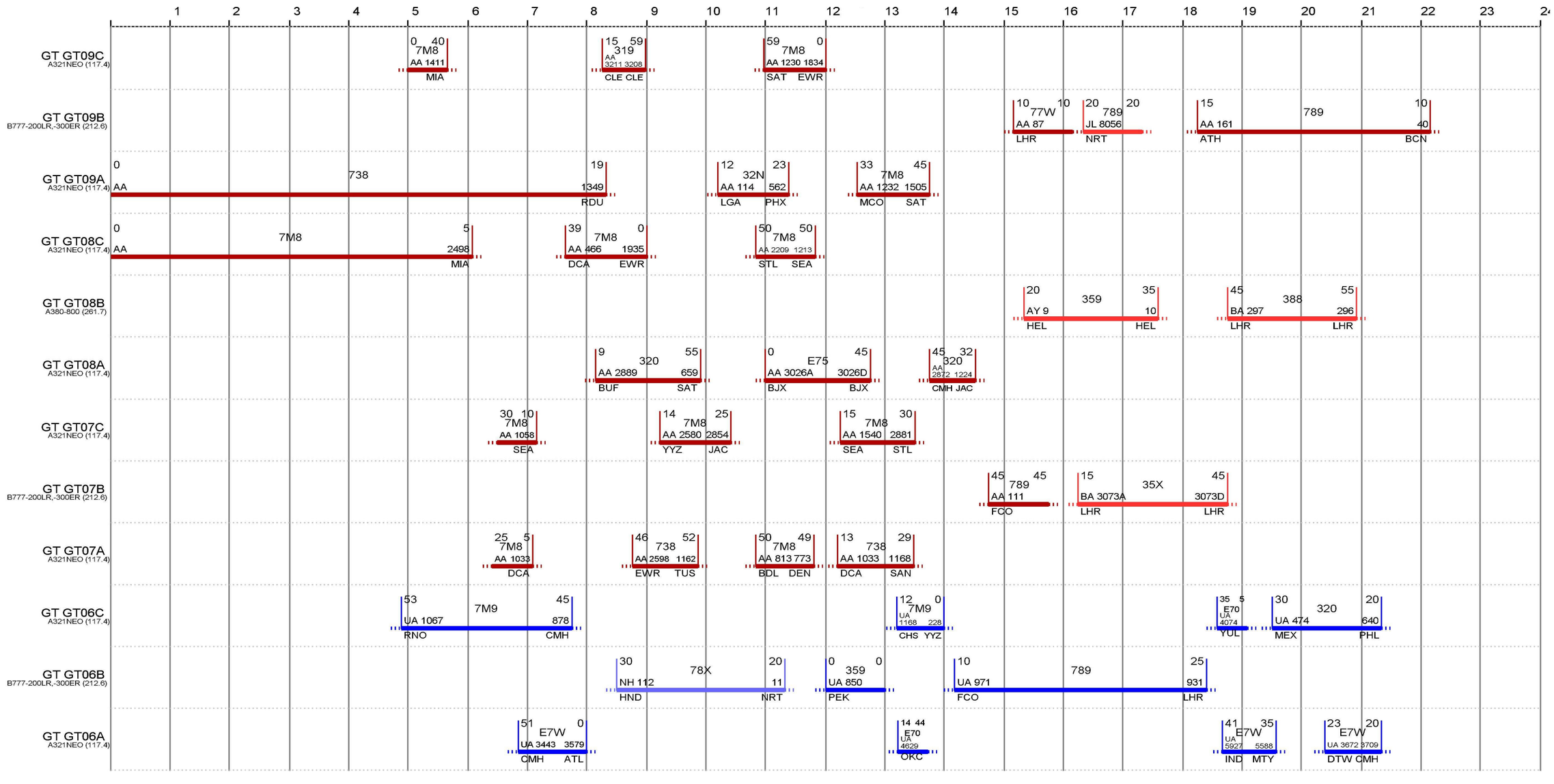


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (11 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (11) Plotted: Nov 4, 2020, 06:42PM

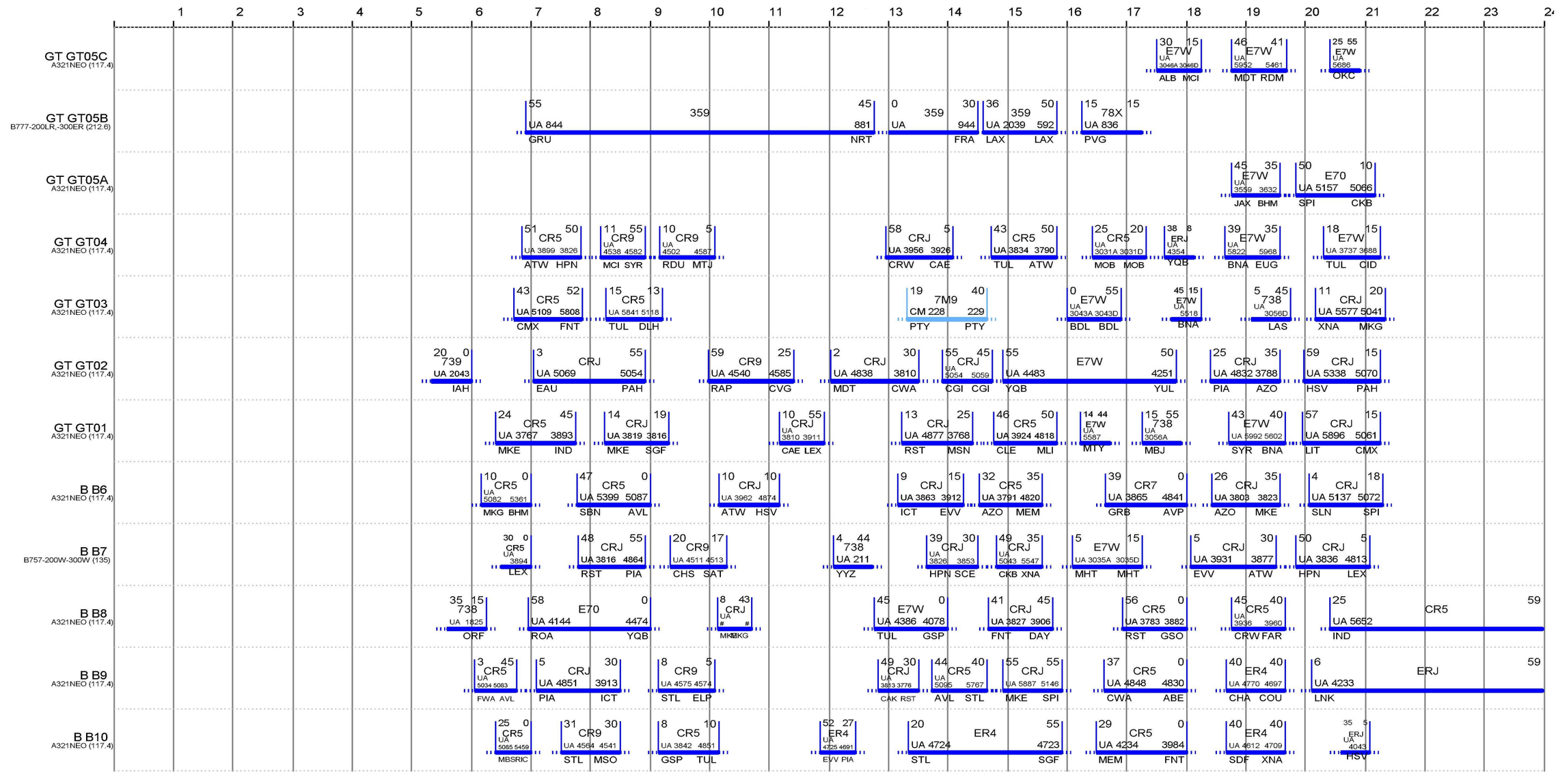


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (12 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (12) Plotted: Nov 4, 2020, 06:42PM

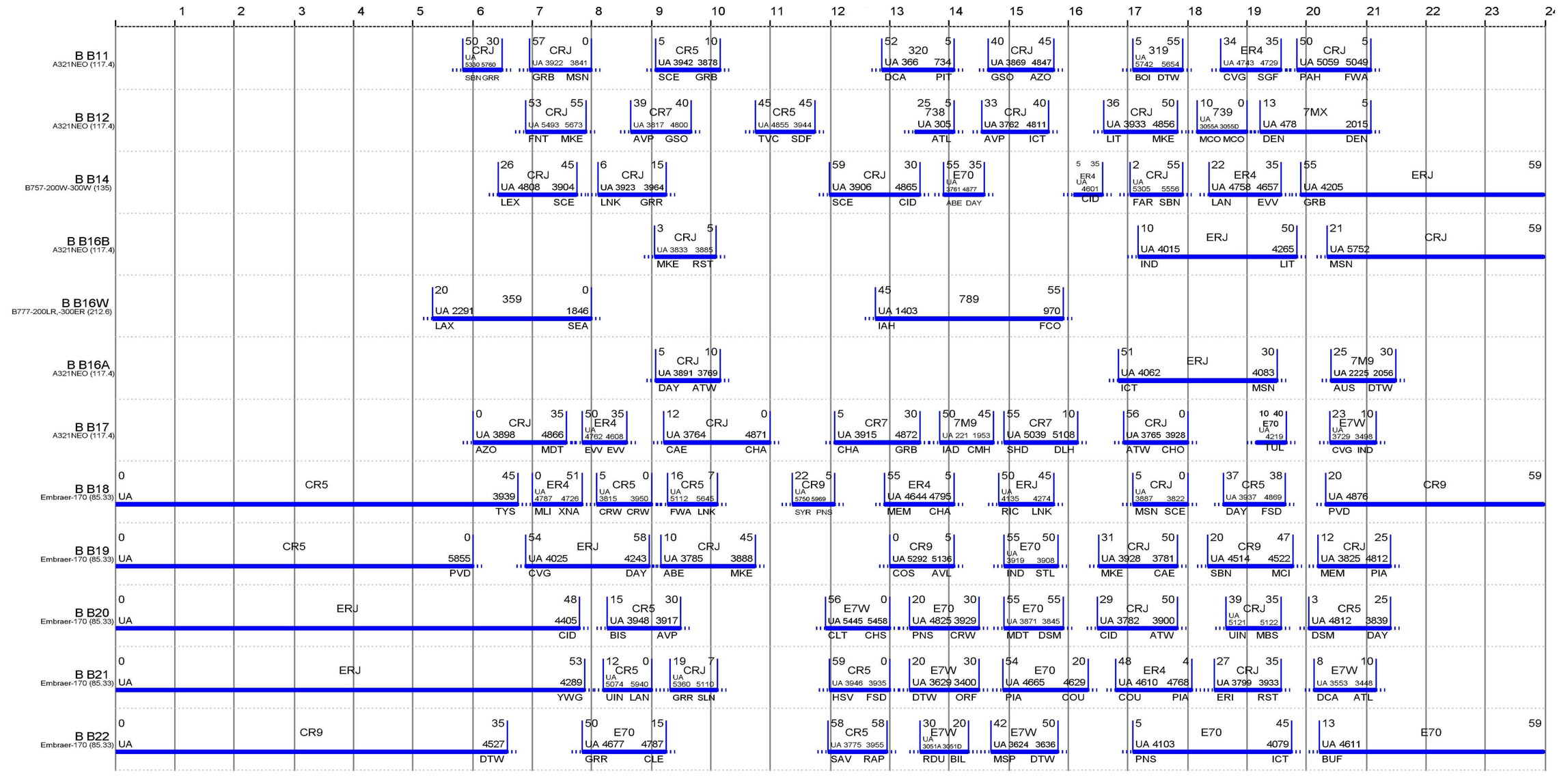


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (13 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (13) Plotted: Nov 4, 2020, 06:43PM

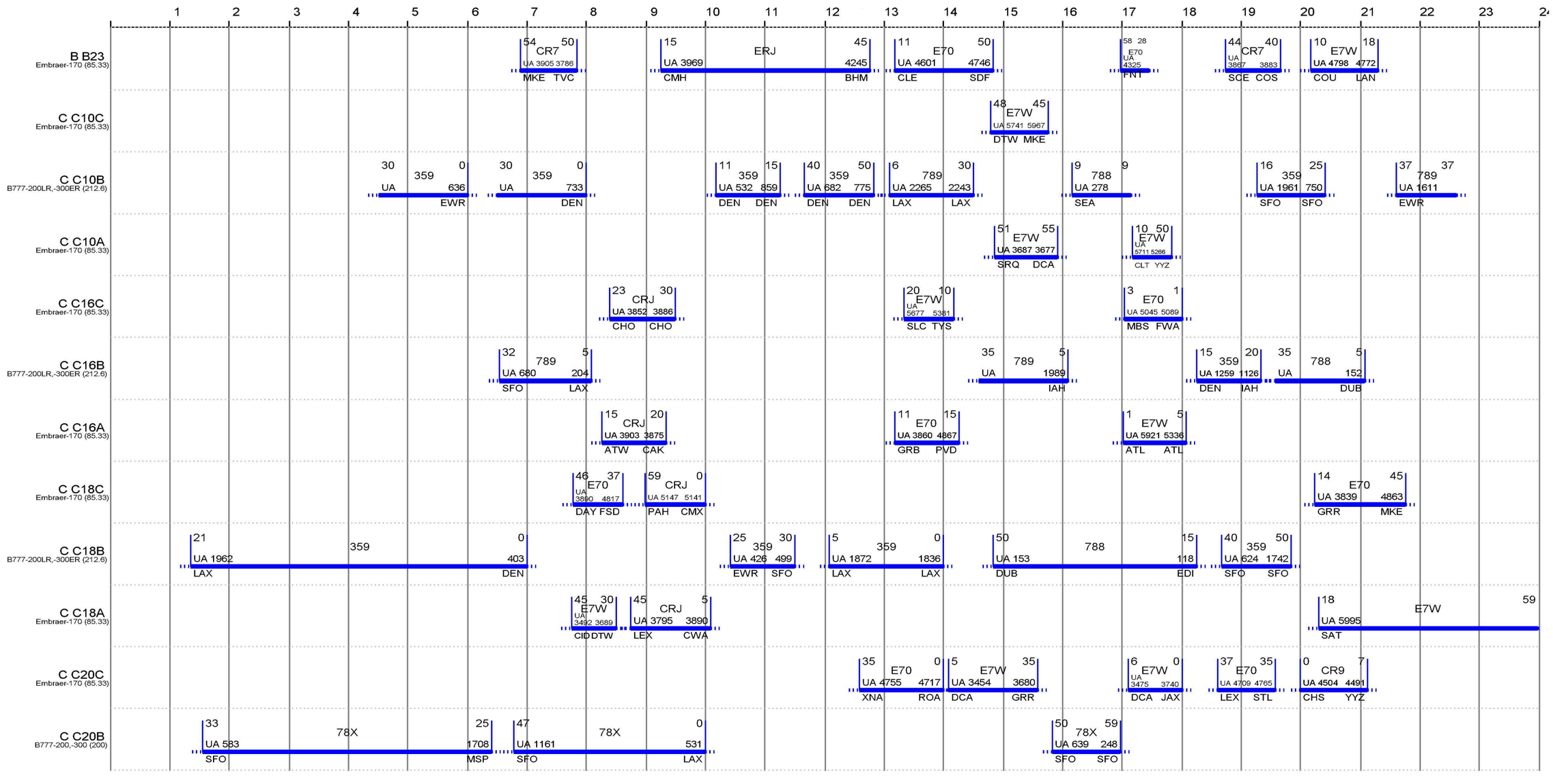


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (14 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (14) Plotted: Nov 4, 2020, 06:43PM

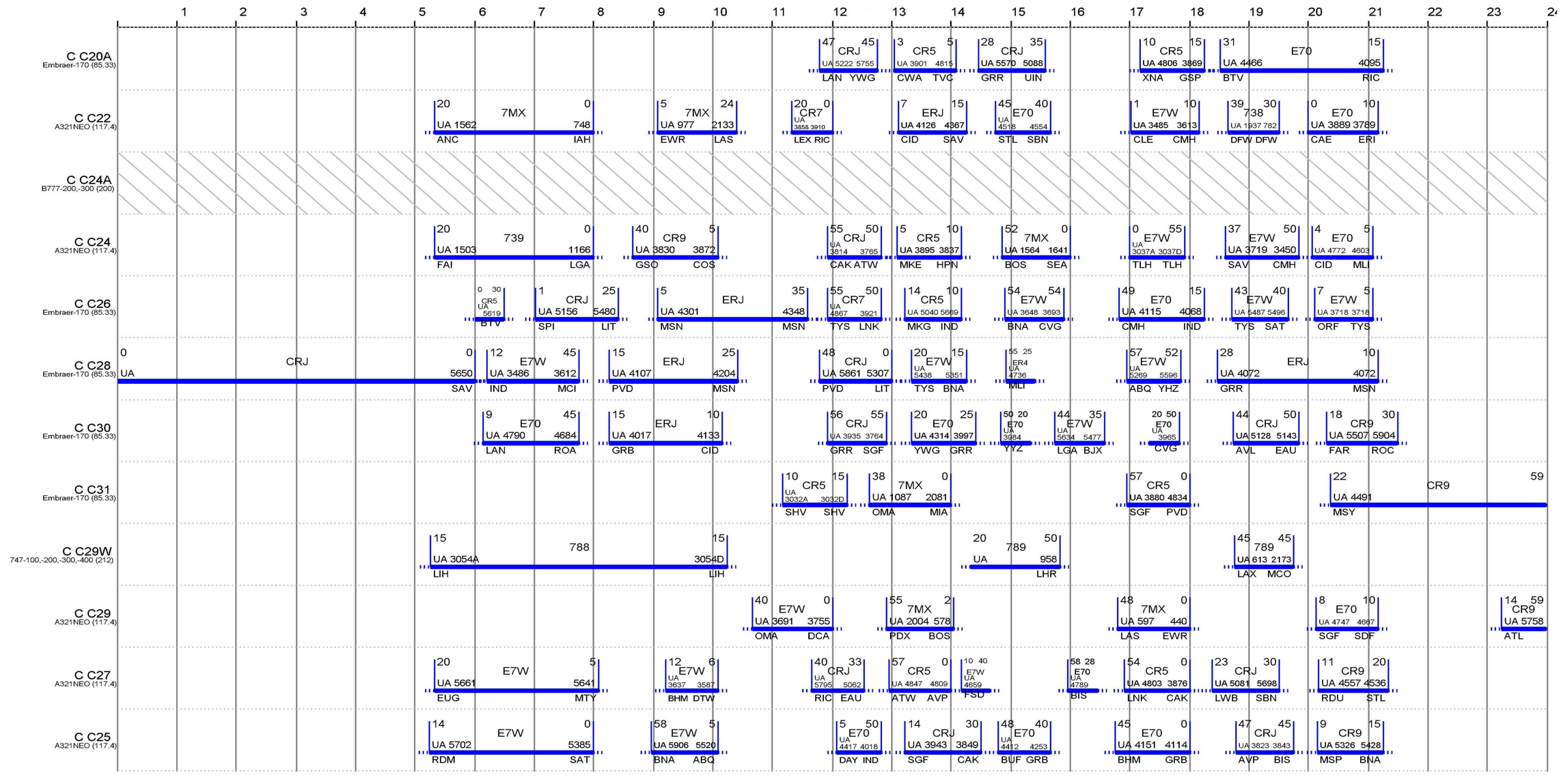


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (15 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (15) Plotted: Nov 4, 2020, 06:43PM

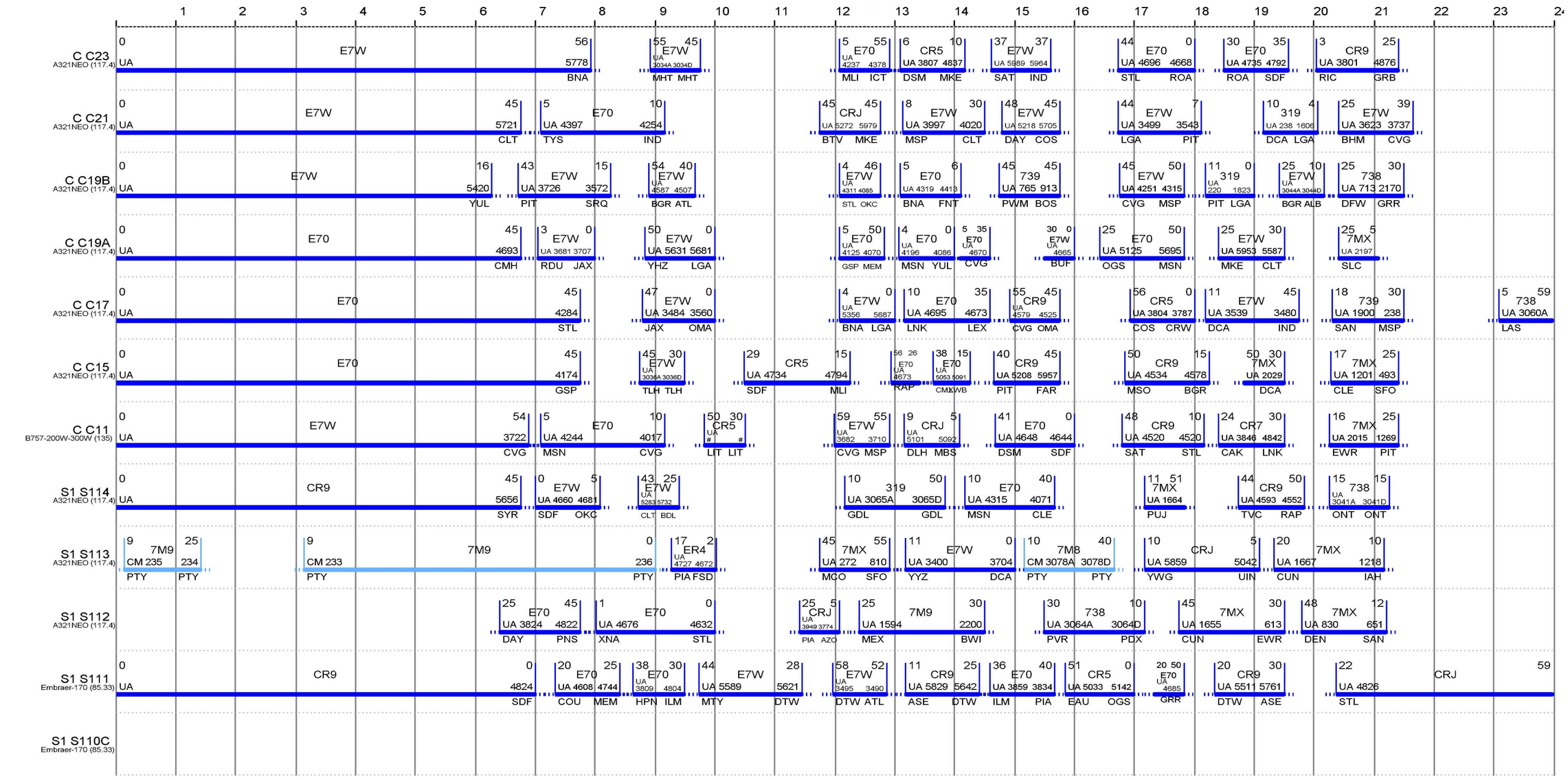


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (16 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (16) Plotted: Nov 4, 2020, 06:43PM

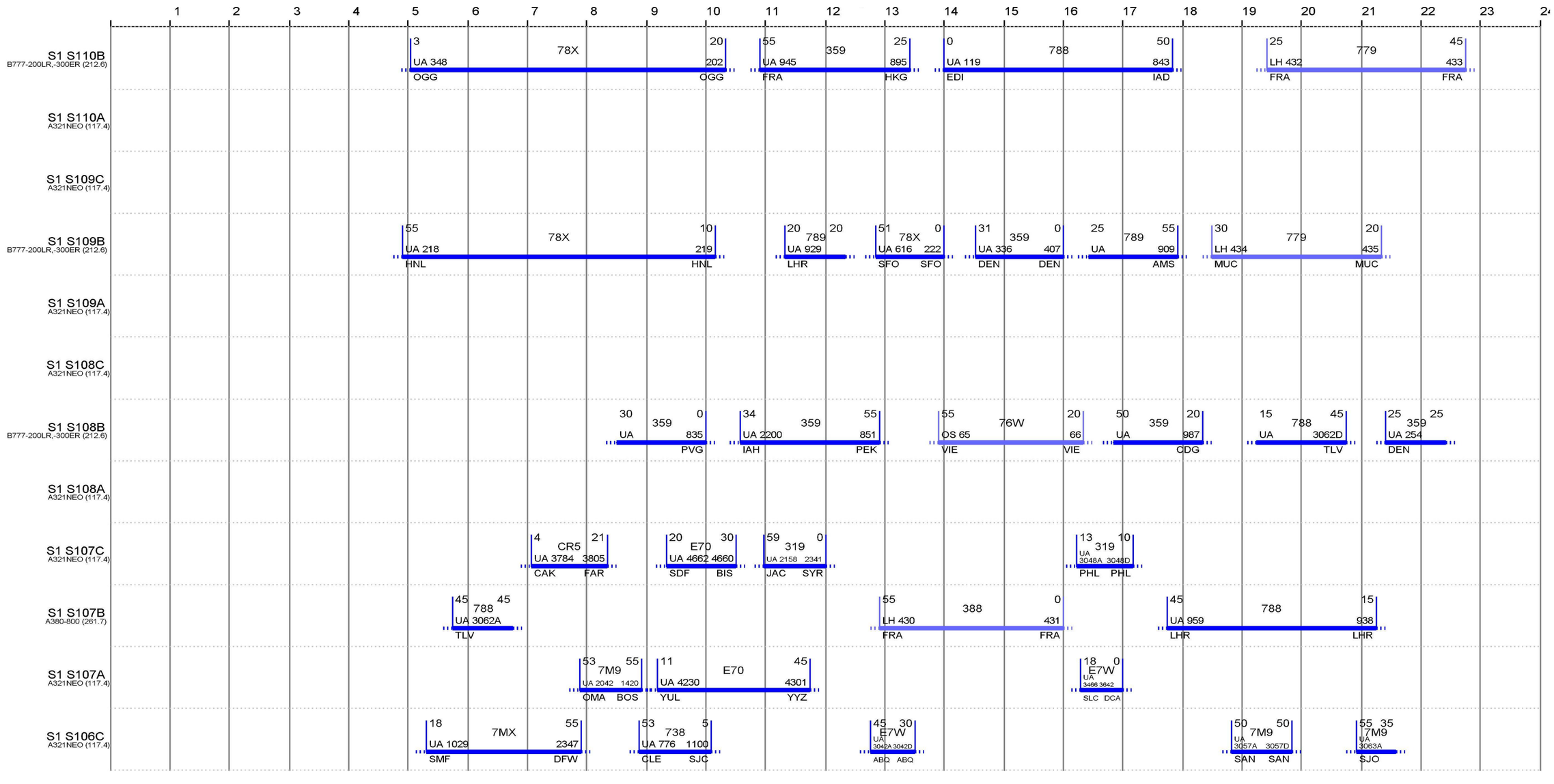


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (17 OF 22)

Ramp Charts

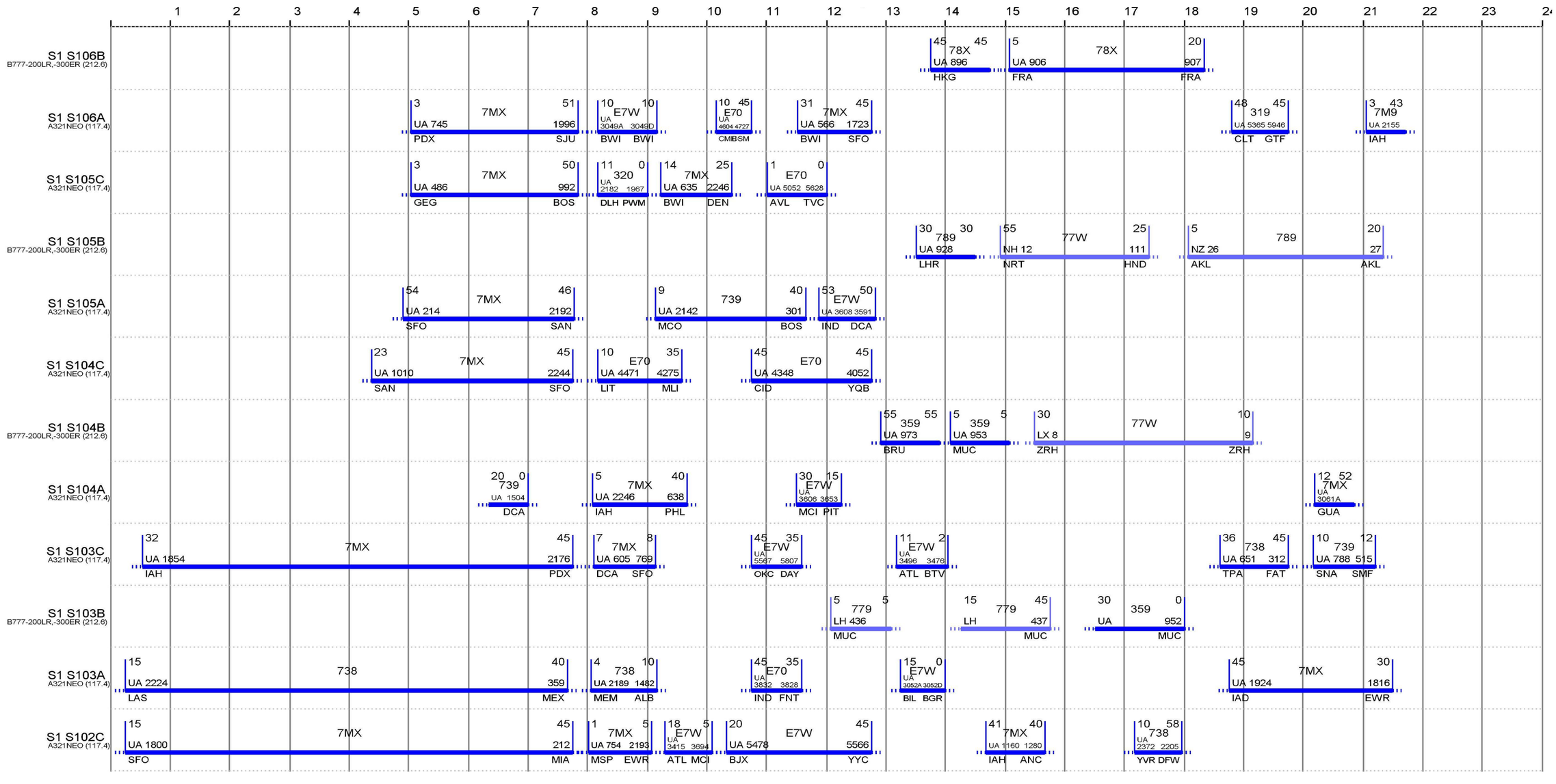
Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (17) Plotted: Nov 4, 2020, 06:43PM



SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (18 OF 22)

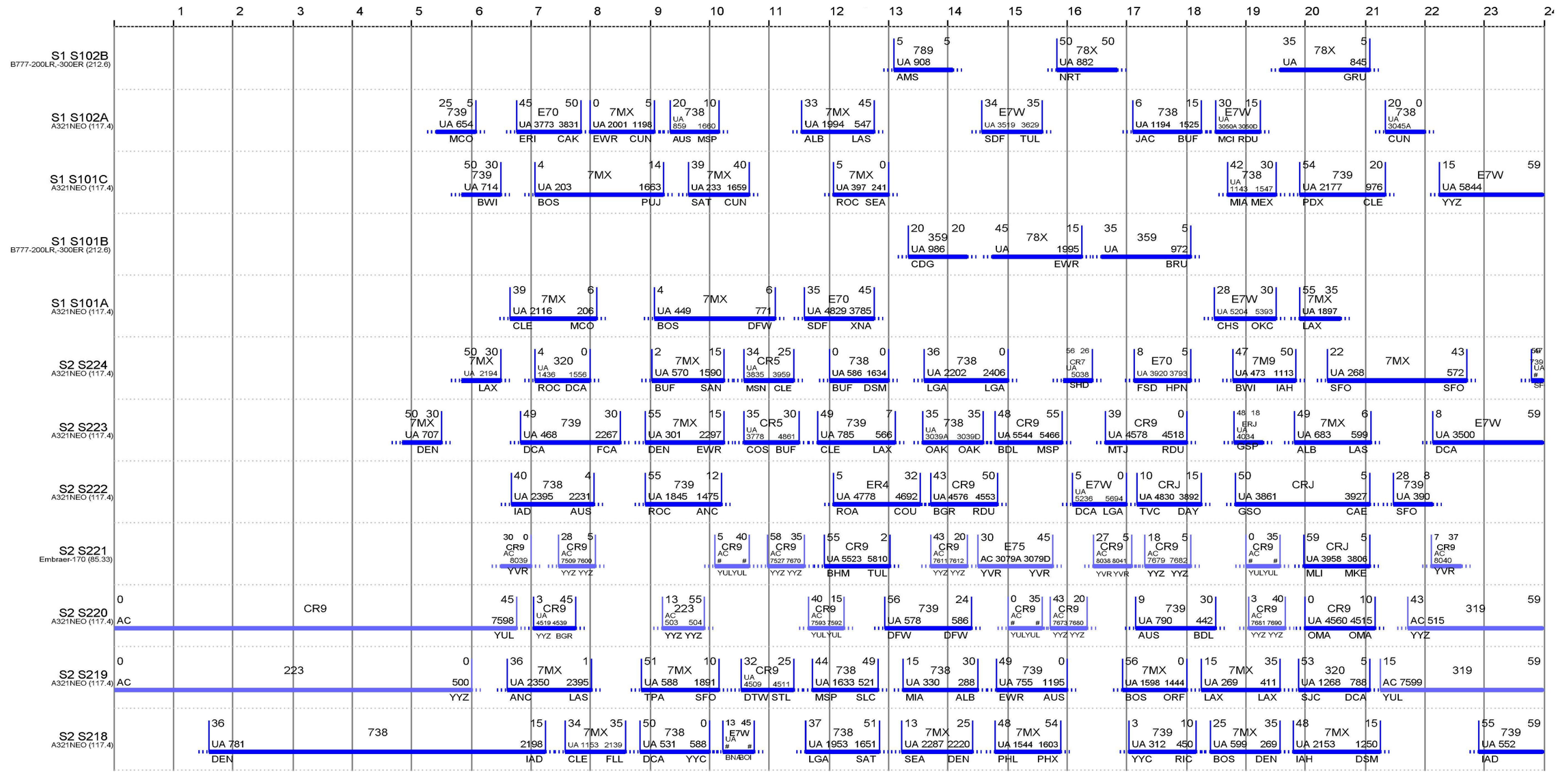
Ramp Charts



SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (19 OF 22)

Ramp Charts

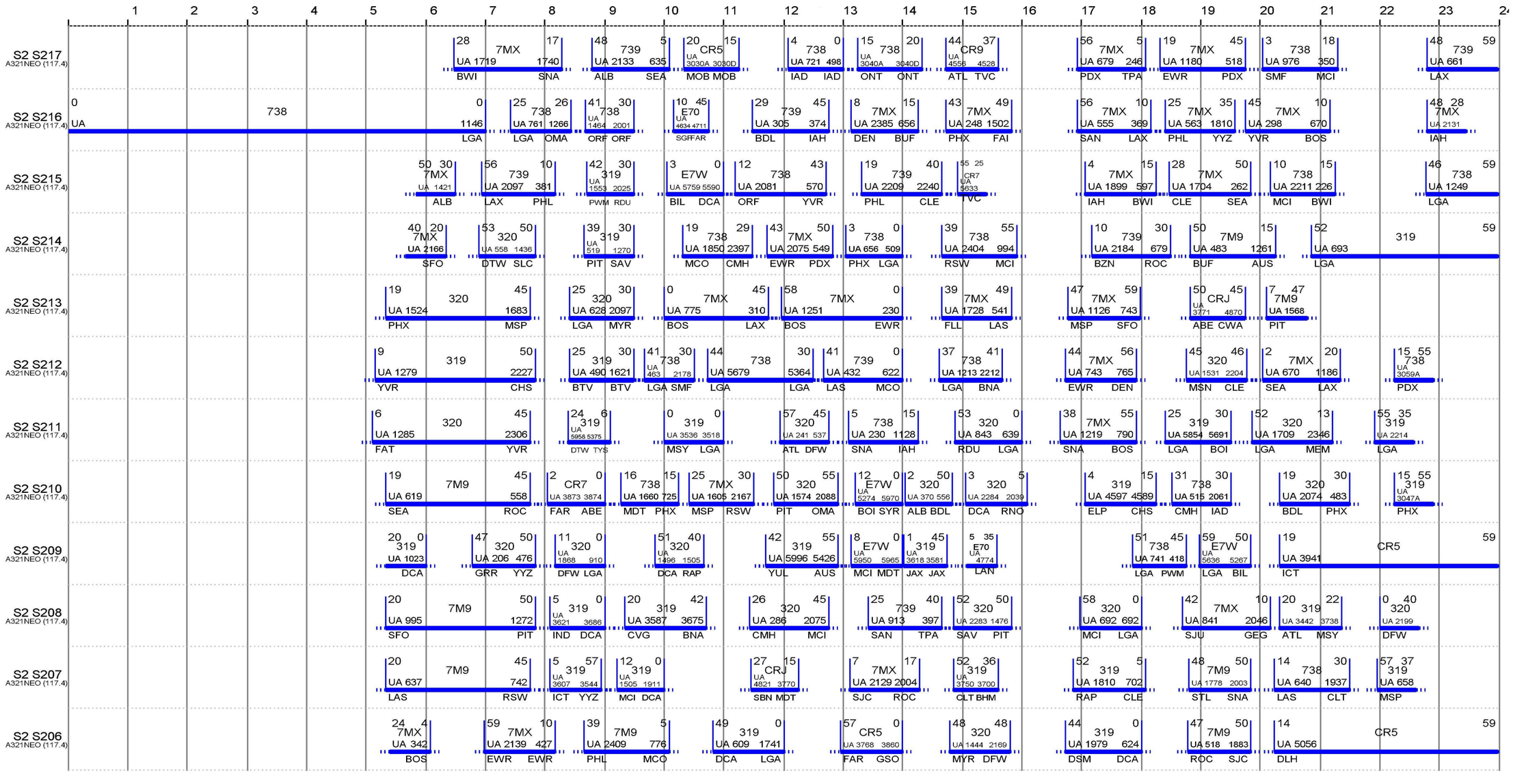


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (20 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (20) Plotted: Nov 4, 2020, 06:44PM

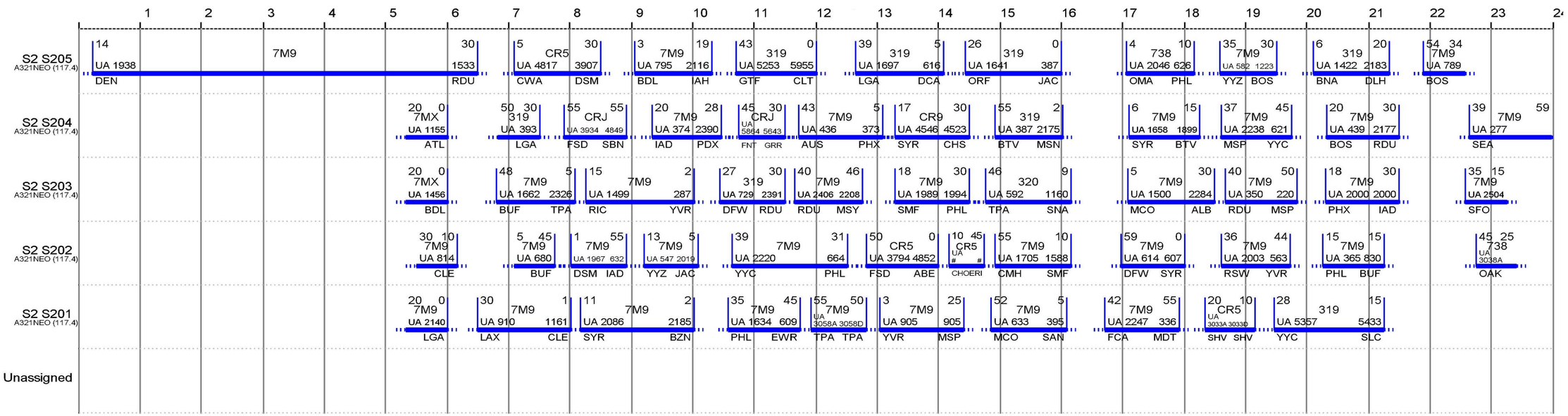


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (21 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (21) Plotted: Nov 4, 2020, 06:44PM

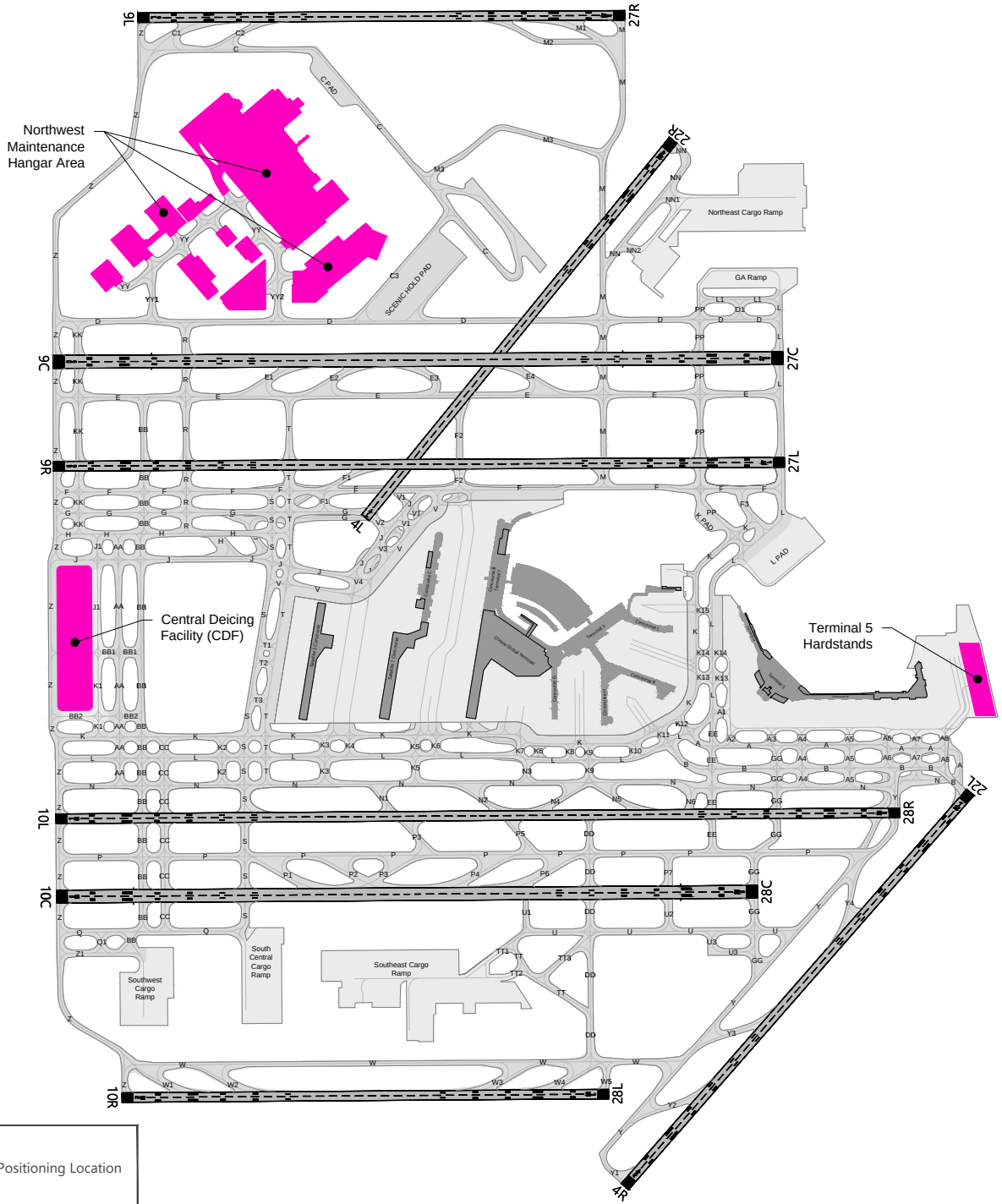


SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (22 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (22) Plotted: Nov 4, 2020, 06:44PM



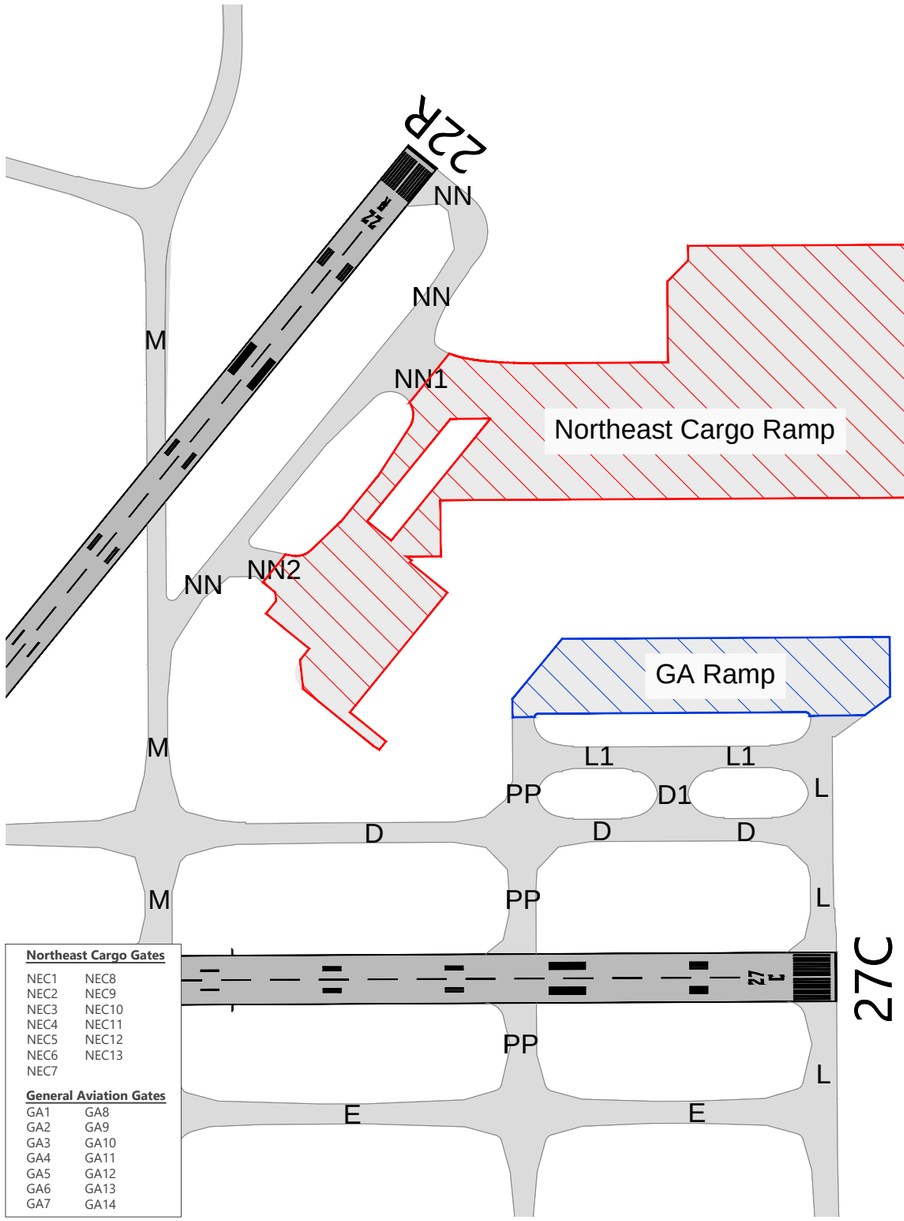
SOURCES: Ricondo & Associates, Inc., *O'Hare International Airport Draft Future Airport Layout Plan*, May 2019; Ricondo & Associates, Inc., June 2019.

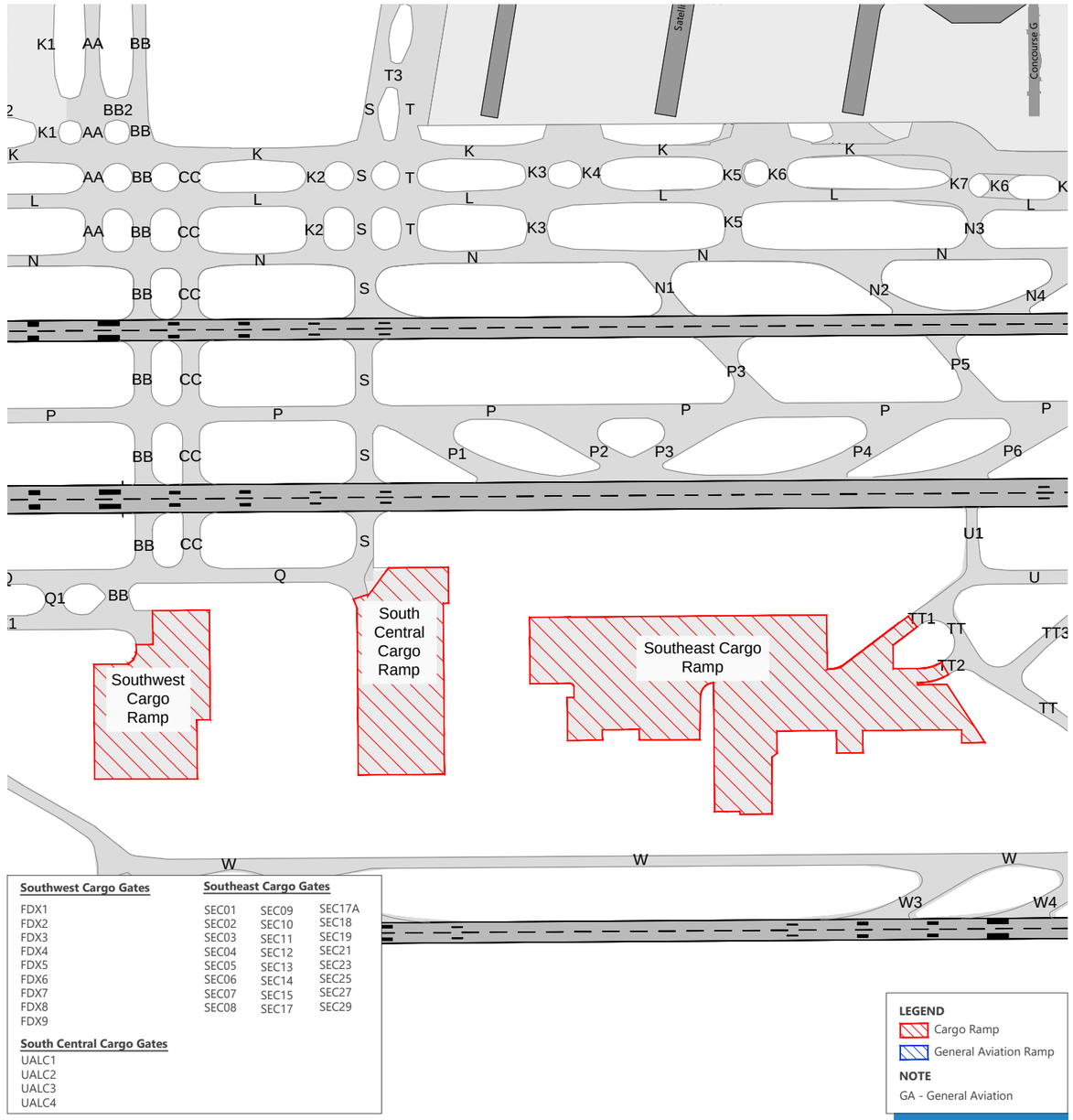
EXHIBIT 1-5

NORTH 0 2,500 ft.

Repositioning Remote Locations

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\02-Airfield\AutoCAD\TAP EA - Repositioning Remote Locations.dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:16PM





SOURCES: Ricondo & Associates, Inc., *O'Hare International Airport Draft Future Airport Layout Plan*, May 2019; Ricondo & Associates, Inc., August 2020.

NORTH

0 Not To Scale

EXHIBIT 1-6

General Aviation and Cargo Parking Areas

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\02-Airfield\AutoCAD\TAP EA - GA and Cargo Parking Areas.dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM

1.6 Arrival Fixes by Departure Airport

Arrival fixes were assigned based on the location of the departure airport. **Exhibits 1-7** and **1-8** depict the arrival fix assignments for West Flow and East Flow, respectively.

1.7 Taxi Speeds

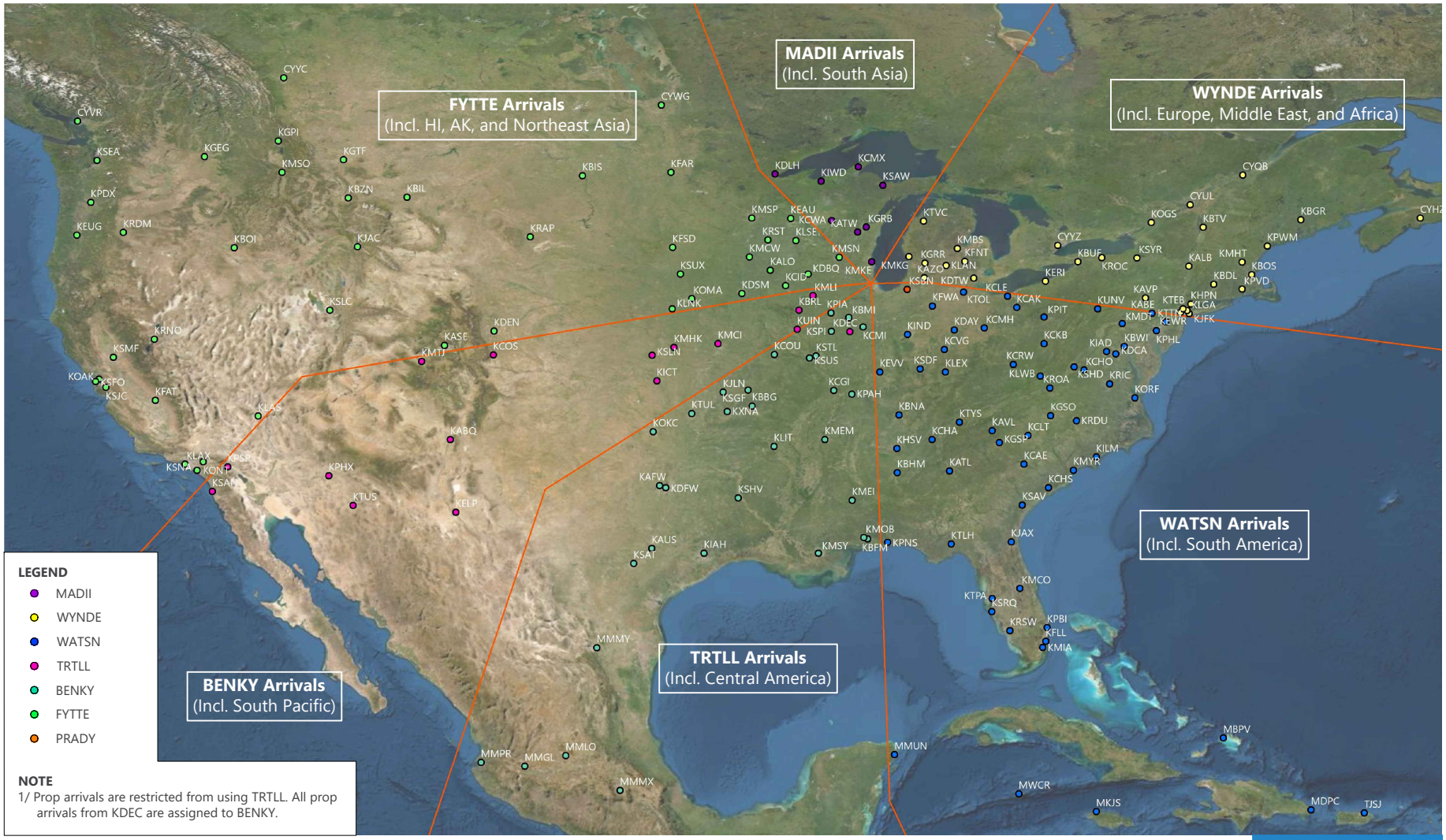
Taxi speeds were established for taxiways and aprons. **Exhibits 1-9** and **1-10** depict the taxi speeds for West Flow and East Flow, respectively.

1.8 Intersection Departure Procedures

Departures utilizing Runways 9R-27L and 10L-28R are encouraged to use intersection departure procedures whenever possible so that arrivals from the outboard runways (Runways 9L-27R, 9C-27C, 10C-28C, and 10R-28L) can taxi behind departing aircraft, reducing delay incurred by both arriving and departing aircraft. However, some departures cannot use intersection departure procedures due to runway length requirements. A subset of widebody[7] operations that is representative of the characteristics of the operations that typically utilize the full length of the departure runway was restricted from using intersection departure procedures. This subset was defined based on the airline and the great circle distance[8] from O'Hare to the destination airport. **Tables 1-2** and **1-3** detail the air carrier operations and cargo operations, respectively, that were in the DDFS and restricted from using intersection departures.

[7] This refers to aircraft with a fuselage wide enough to accommodate two passenger aisles.

[8] This is the shortest distance between two points on the surface of a sphere, measured along the surface of the sphere.



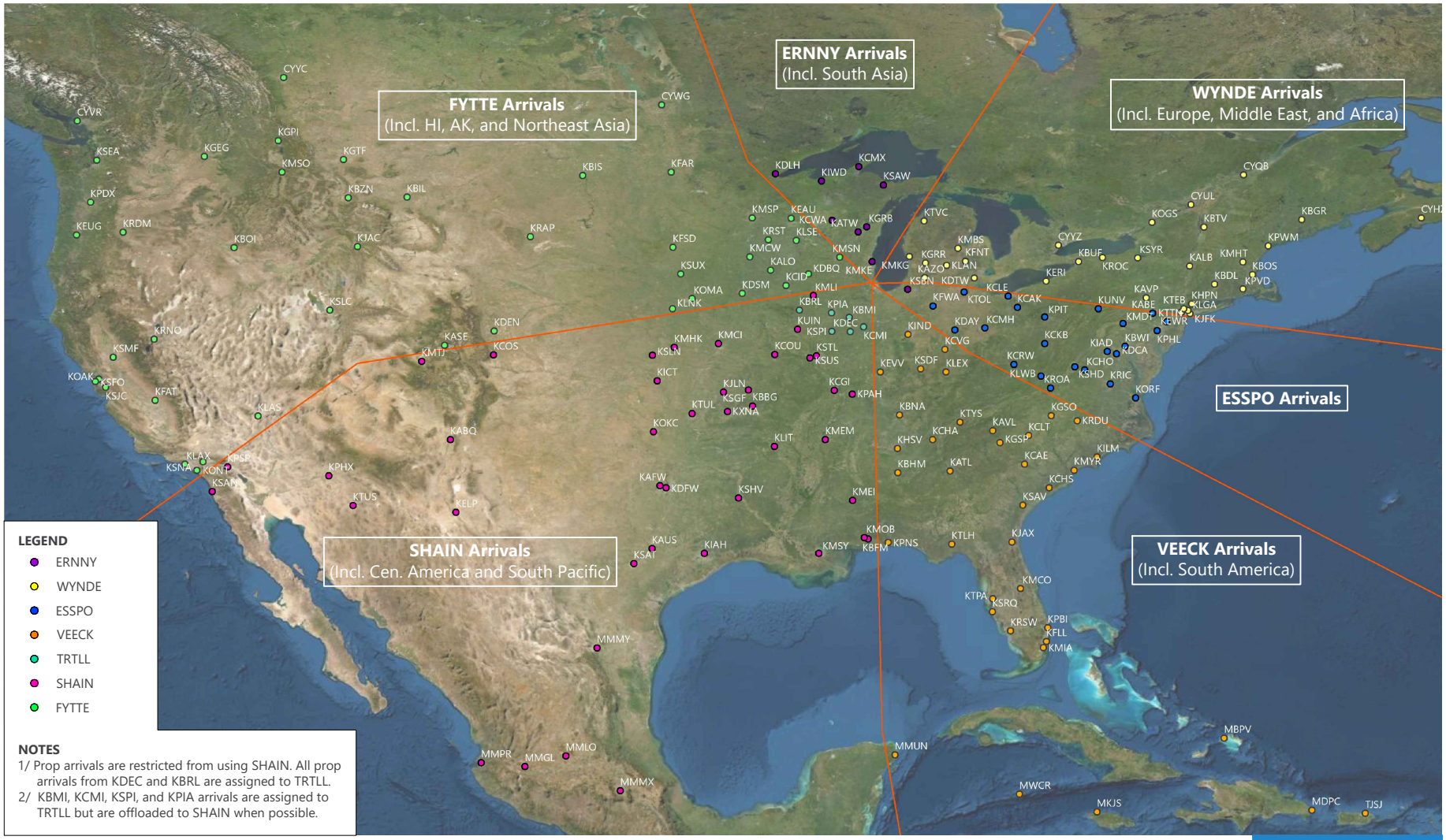
SOURCE: Terminal Area Plan and Air Traffic Procedures Environmental Assessment Air Traffic Workgroup, August 2019.

EXHIBIT 1-7

NORTH 0 Not To Scale

Arrival Fixes by Departure Airport
West Flow

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\04-Airspace\AutoCAD\KORD TAP EA - Arrival Fixes by Departure Airport.dwgLayout: WPFull_West Plotted: Oct 30, 2020, 04:22PM



SOURCE: Terminal Area Plan and Air Traffic Procedures Environmental Assessment Air Traffic Workgroup, August 2019.

EXHIBIT 1-8

Arrival Fixes by Departure Airport
East Flow

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\04-Airspace\AutoCAD\KORD TAP EA - Arrival Fixes by Departure Airport.dwgLayout: WPFull_East Plotted: Oct 30, 2020, 04:22PM